FIG. 1

Sequence	MB DNA (%)	EC DNA (%)	fold (MB/EC)
GGCGCC=	0.1462	0.0020	73.12
GCCGGC=	0.2317	0.0062	37.19
GTCGAC=	0.0990	0.0116	8.56
CTCGAG=	0.0239	0.0038	7.96
CCCGGG=	0.0645	0.0091	7.13
CACGTG=	0.0205	0.0030	6.74
CCCGAG=	0.0451	0.0069	6.58
CTCGGG=	0.0392	0.0068	5.75
GCCGAC=	0.1435	0.0297	4.83
GTCGGC=	STCGGC= 0.1400		4.74
CTCGGC=	0.1021	0.0217	4.71
GCCGAG=	0.1000	0.0218	4.58
GACGAG=	0.0493	0.0120	4.10
GCCGCG=	0.1781	0.0435	4.09
GACGTC=	0.0619	0.0151	4.09
GTCGAG≒	0.0677	0.0166	4.08
GTCGTE=	0.0755	0.0192	3.93
CTCGAC=	TCGAC= 0.0643		3.90
CCCGAČ=	0.0676	0.0175	3.86
CTCGTC=	0.0501	0.0130	3.86
CGCGGC=	0.1751	0.0455	3.85
GTCGGG=	0.0627	0.0165	3.79
TCCGAG=	0.0203	0.0054	3.78
GACGAC=	0.0747	0.0199	3.76
CTCGGA=	0.0202	0.0054	3.73

GCCGCC=	0.2336	0.0654	3.58
GCCGTC=	0.1008	0.0296	3.41
GGCGGC=	0.2237	0.0662	3.38
GCCGGT=	0.1302	0.0402	3.24
CCCGGC=	0.1183	0.0365	3.24
GACGGC=	0.1033	0.0327	3.16
CCCGCG=	0.0824	0.0263	3.13
GCCGGG=	0.1165	0.0373	3.13
CGCGGG=	0.0849	0.0273	3.11
ACCGGC=	0.1242	0.0405	3.07
GGCGGG=	0.0982	0.0323	3.04
CCCGCC=	0.0995	0.0329	3.02
CGCGGT=	0.1117	0.0372	3.00
ACCGCG=	0.1090	0.0368	2.97
ACCGAG=	0.0511	0.0175	2.92
GTCGGÆ	0.0331	0.0118	2.80
GGCGAC=	0.1005	0.0360	2.80
CTCGGT=	0.0494	0.0178	2.78
GTCGCC=	0.1056	0.0383	2.76
GTCGCG=	0.0884	0.0323	2.74
CACGTC=	ACGTC= 0.0430		2.73
TCCGAC=	0.0326	0.0121	2.70
CGCGAC=	0.0852	0.0320	2.66
Average	0.0498	0.0288	
Sum	12.7440 .	7.3865	

FIG. 2

a) (

b)

MB-ODN 4/5 (-CGXXCGXXXCG-)

No.	Sequence	Score
1	CTCCAcqGGcqGCAcqGCCA	11811
2	TGTCTcqGGcqGCAcqGTTG	11773
3	CAAGG eqG Te qGC TeqATGG	11538
4	AACTG eg GAe g TG G eg G CA G	10931
5	GTCAGeqGAeqTGGeqGCTC	10829
6	AAAGG cg TGc gGG Tcg GCC C	10697
7	CTCAGeqGGeqGCAeqTGCA	10670
8	CACARegGGegCCTegGCTT	10319
9	ATGARegGGegGCTegAGCC	10240
10	GATGGegATegGCAegCCCA	10199
11	CAGCAcqTGcqTGGcqGCAT	9962
12	GCTGGcqGGcqAGGcqATTC	9855
13	TG TTG eqC Te qGC TeqGCAG	9839
14	GG TG G c q G T c q AG G c q C T C T	9728
15	GGTGGeqCAeqCCTeqGCCC	9259
16	GGGGGegGTegCCTegCTAA	9250
17	GACAT eq G Te q GCA eq T CA G	9098
18	CCAGTcqGGcqGGGcqCTGG	9022
19	TC TGG eqG Te qAAG eqGCC C	8953
20	CAACTeqATeqGGGeqCCCA	8878
21	TTTGGcqGTcqGTGcqCAGC	8869
22	CCAGGeqGTeqGTGeqCAGG	8869
23	CTCCTeqGTeqAGGeqGTGG	8844
24	ACCATeqGGeqCCAeqTCTC	8780
25	CAACA cgA Tc g TG T cg G CT G	8615
393	GTGTTcqAAcqCTAcqAACC	1681
394	AAGTAcqAAcqATGcqAGAA	1637
395	ACTAGeqTAeqCAGeqAATC	1539

MB-ODN 5/5 (-CGXXXCGXXXCG-)

-		
No.	Sequence	Score
1	TGCTcqTGGcqGCTcqGCAG	12868
2	GAGGeqGCTeqGTGeqGGTC	12599
3	TTGGcqGCAcqCAAcqCCTC	11345
4	GAAGeqTTGeqGGGcqGCCC	11280
5	AAGGcqTGGcqGCTcqTGGA	11258
6	CAGGegATGegCCTegGCTC	10614
7	GTTGcqGGAcqAGTcqGCAT	10297
8	GGGGcqGGTcqACTcqACCA	10243
9	TGGTcqGGGcqGGTcqACTC	10153
10	ATCAcqCTAcqGGGcqGCCA	10063
11	GTGGcqCCAcqAGTcqACAT	10059
12	AAGGcqGCTcqCATcqATGG	10036
13	GAGGcqGGGcqGGTcqATCT	9743
14	AATTeqTGGeqGCTeqTGCA	9712
15	CAGGeqGTGeqGTGeqGCAT	9657
16	TAGGeqCTTeqAGTeqGCAC	9655
17	GTGReqTCAeqGGTeqGCAG	9390
18.	GCTTcqAGTcqGCAcqCCAG	9269
19	GTGTcqGGGcqAGGcqACCA	9164
20	TTGGcqTTGcqTGTcqGCCT	9034
21	TCATcqATGcqGGGcqCCAC	8959
22	GAGGcqGGGcqGAGA	8873
23	TAGGcqATGcqCAGcqCCTG	8845
24	CAGGcqGTGcqGCAcqCAGT	8703
25	CTGAcgCCTcgGCTcgAGCT	8642
352	ATTReqCTGeqAAAeqCAGT	1807
353	ThateqGareqTraeqaTCC	1713
354	CATGcqTAAcqTTAcqGAAA	1219

FIG. 3

a)

b)

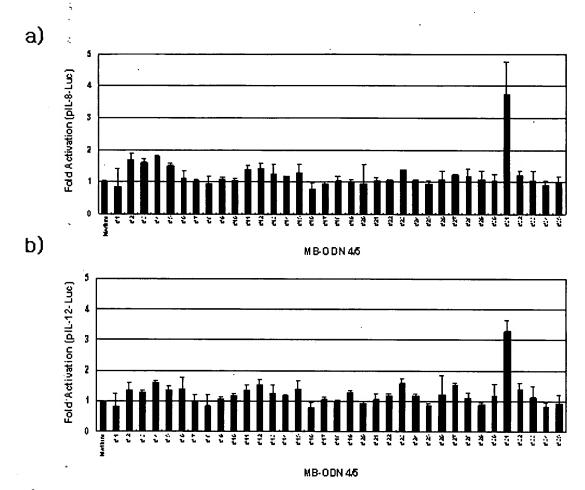
MB-ODN 4/5 (-CGXXCGXXXCG-)

MB-ODN 5/5 (-CGXXXCGXXXCG-)

ODN	Sequence
MB-00N4/5-1	CCAGTCGGGCGGGGGGCGCTGG
MB-0DN4/5-2	CCT CCC CCC CCA CCCCATT C
MB-0DN4/5-3	ACCAGCGGGCGAGTCGCCTG
MB-0DN4/5-4	CCTCCCCCCCTTCCCCATC
MB-0DN4/5-5	GGCAGCGGGCGCAT CGCCAG
MB-0DN4/5-8	CTTCCCCCCCCCCTCCCACCA
MB-00N4/5-7	AACTGCGGACGTGGCGGCAG
MB-00N4/5-8	CCT CACCCTCCCATCCATTC
MB-00N4/5-9	TTTCCCCGTCCCTCCCCACC
MB-0DN4/5-10	GGTGGCGGTCGAGGCGCTCT
MB-0DN4/5-11	CCTCCCCCTCCACCCCCTCT
MB-0DN4/5-12	TTTGTCGGTCGCAACGAAAA
MB-0DN4/5-18	CAT CTC CACC CCAT CCC CAC
ИВ-ODN4/5-14	TTGCTCGAGCGGTTCGGCAT
ИВ-ODN4/5-15	TTGGTCGAGCGTGTCGGGTG
MB-0DN4/5-16	ACCATC CACCCCACCCT CCT
MB-0DN4/5-17	CCCACCCACCCCAACCACAC
MB-0DN4/5-18	CTCATCGAGCGCCACGGCAG
MB-0DN4/5-19	ATGCTCGAGCGCCTCGGCCC
MB-0DN4/5-20	CCCTTCCAACCCCTCCACCC
MB-0DN4/5-21	CAT GCC GAAC GT GACGT CAT
MB-0DN4/5-22	CTTGTCGAACGTCTCGGCCA
MB-0DN4/5-28	CAGATEGAACGETTEGACAE
MB-0DN4/5-24	CA GTTC GATC GA GA CGA CC C
MB-0DN4/5-25	CTACCCCAPCCATCCCCCAA
MB-0DN4/5-28	CAACACCATCGTGTCGGCTG
MB-ODN4/5-27	CTACCCCATCCCAACGAAGT
MB-0DN4/5-29	CCACACGATCGCCACGGTGG
MB-0DN4/5-29	GGCAGCGTGCGTGACGACTT
MB-0DN4/5-30	TAACCCCTCCCCATCCATAT
MB-0DN4/5-81	AGCAGCGTTCGTGTCGGCCT
MB-0DN4/5-32	TGTTGCGCACGGTGCGCTGC
MB-0DN4/5-88	CTGGCCGCACGCACGCTGG
MB-0DN4/5-24	CGCAGCGCACGCAGCGCAAC
MB-0DN4/5-85	GCAGGCGCTCGTCACGCCCC

ODN	Sequence
MB-ODN5/5-1	CAT GC GGATC GG TG CG CT G C
MB-ODN5/5-2	CAC GC GG T GC GCAA CG CC T G
MB-00N5/5-8	CAT CC CCT CC CCAT CC CCAA
MB-00055-4	GAGGEGGT GEGECA EGTGET
MB-00N5/5-5	C CA CC CC C TC CA CA CCACAA
MB-0DN5/5-6	T GGTC GA G GC GT T G CG GG A C
MB-00N5/5-7	A CA CC CA C T C CC T C C C C C A C
MB-00N5/5-8	TAGGCGAAGCGATGGGGCCC
MB-00N5/5-9	T CA CC GAA CC CC TC CC CC CA
M B-ODNS/5-10	A TO TO GAA GO COTGOGAG GO
MB-00N5/5-11	G GGTC GAATCGT GT CG CC T C
M B-ODNS/5-12	TAGGCGATGCGCAGCGCCTG
MB-0DN5/5-18	A TO GC CAT GC GC TG CC CC TG
MB-00N5/5-14	CCCTCCA CACCCTCCCATTC
MB-0DN5/5-15	TGCTCGTGGCGGCTCGGCAG
MB-0DN5/5-18	
MB-00N5/5-17	CCATCCTCCCCCACCCCATC
M B-ODN 5/5-18	T GCAC GT G TC GTAC CG CA G G
M B-ODN 5/5-19	
M B-ODN5/5-20	
M B-ODN 5/5-21	AAATCGTTGCGGCACGGCAT
M B-ODN 5/5-22	ATCACGTTGCGCAGCGGGTG
M B-ODN5/5-28	AAATCGTCTCCAGGCGTTCC
MB-00X5/5-24	CTCCCCACCTCCCCCTCC
M B-ODN \$ 5-25	T GC GC GC A GC GC CA CG CT A T
M B-ODN \$ 5-28	TCTGCGCAGCGCATCGTTGA
MB-00N5/5-27	TGG GC GCA GC GT TA CGAA CT
MB-00N5/5-28	GCCTCGCAGCGACACGTTGG
M B-ODN \$ 5-29	TTGGCGCAACGCATCGGAGA
M B-ODN 5/5-80	G GA GC GCA AC GT TG CG CA T C
M B-0DN5/5-81	à cà ac gca te geat egagga
M B-ODN 5/5-82	à ccàc cet ce cc et et e à
MB-00N5/5-88	ACTGCGCTGCGGCACGACCC
MB-ODN5/5-34	CTCTCCCTCCCCACCGCGT
M B-ODN 5/5-35	CCCACCTCCCTCACCTCCT
M B-ODN \$ 5-38	<u>CTGACGCCTCGCCTCGAGCT</u>

FIG. 4



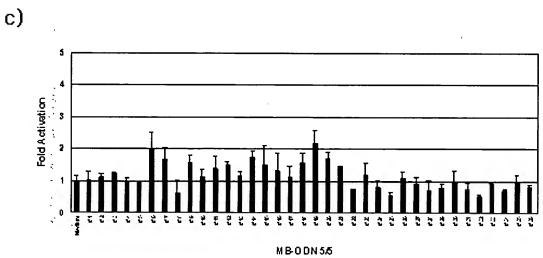


FIG. 5

a)

b)

Fold activation

ODN	Sequence	
MB 4/5 #31	AGCAGCGTTCGTGTCGGCCT	
#31.1	CAGCTCGTTCGTGTCGTGCT	
#31.2	TGTGGCGTTCGTGTCGGTCT	
#31.3	TGCRACGTTCGTGTCGCCAC	
#31.4	GCCACGTTCGTGTCGGTAG	
#31.5	GARCACGTTCGTGTCGGAAC	
#31.6	CAGCACGTTCGTGTCGGACA	
#31.7	TATGTCGTTCGTGTCGTCTT	
#31.8	AAGGCCGTTCGTGTCGCTTG	
#31.9	ATTTGCGTTCGTGTCGATTC	
#31.10	GCTGC CGTTCGTGTCGTCAT	
#31.11	ATGGGCGTTCGTGTCGATCC	
#31.12	GTATTCGTTCGTGTCGTCCT	
#31.13	GGGAACGTTCGTGTCGGTGC	
#31.14	TGACTCGTTCGTGTCGCATG	
#31.15	GTCATCGTTCGTGTCGAGAC	
#31.16	TTGCACGTTCGTGTCGATGA	
#31.17	CAGCACGTTCGTGTCGGTCA	

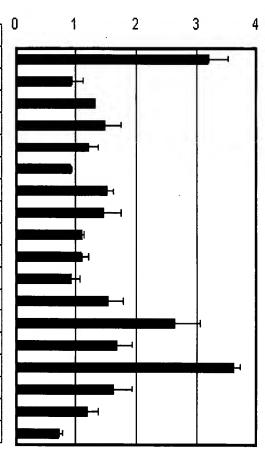


FIG. 6

a)

b)

Fold Activation (phIL-8-Luc)

ODN	Sequence
B-ODN 31(O)	AGCAG <u>CG</u> TT <u>CG</u> TGT <u>CG</u> GCCT
MB-ODN 31(M)	AG <u>CG</u> TT <u>CG</u> TGT <u>CG</u> GC
#31-CG-1	AGCAGGCTT CGT GT CGGCCT
#31-CG-2	AGCAGCGTTGCTGTCGGCCT
#31-CG-3	AGCAGCGTT CGT GT GCGCCT
#31-CG-4	AGCAGGCTTGCTGTCGGCCT
#31-CG-5	AGCAGGCTT CGT GT GCGCCT
#31-CG-6	AGCAGCGTT GCT GT GCGCCT
#31-CG-7	AGCAGGCTTGCTGTGCGCCT
#31-A1	AGCAGCATTCGTGTCGGCCT
#31-A2	AGCAGCTTTCGTGTCGGCCT
#31;A3	AGCAGCCTTCGTGTCGGCCT
#31-B-1	AGCAGCGTTCATGTCGGCCT
#31-B-2	AGCAGCGTTCTTGTCGGCCT
#31-B-3	AGCAGCGTTCCTGTCGGCCT
#31-C-1	AGCAGCGTTCGTGTCAGCCT
#31-C-2	AGCAGCGTTCGTGTCTGCCT
#31-03	AGCAGCGTTCGTGTCCGCCT
#31-D-1	AGCAGCATTCATGTCGGCCT
#31-D-2	AGCAGCATT CGT GT CAGCCT
#31-D-3	AGCAGCGTTCATGTCAGCCT

FIG. 7

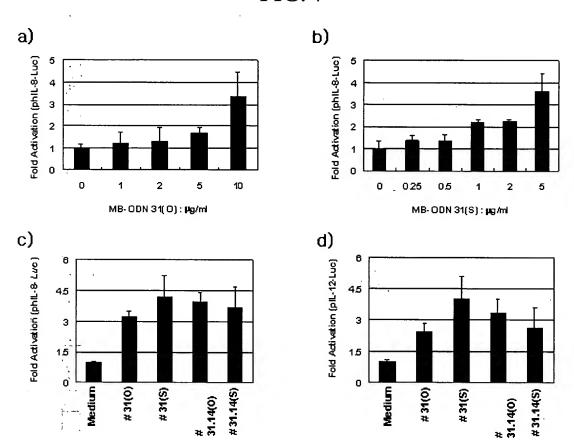


FIG. 8

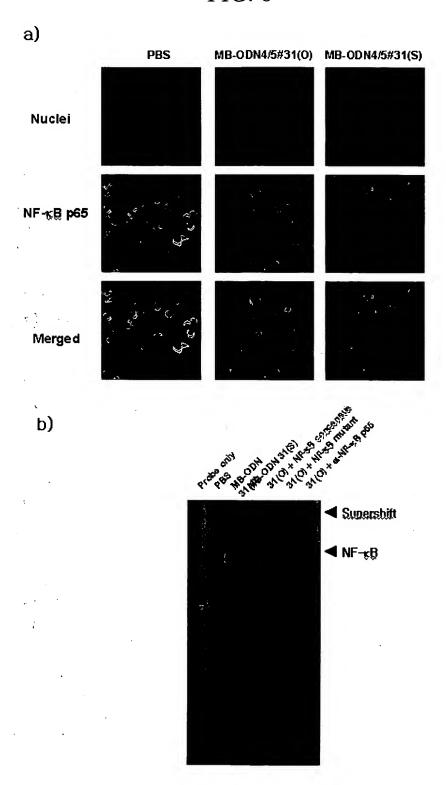


FIG. 9

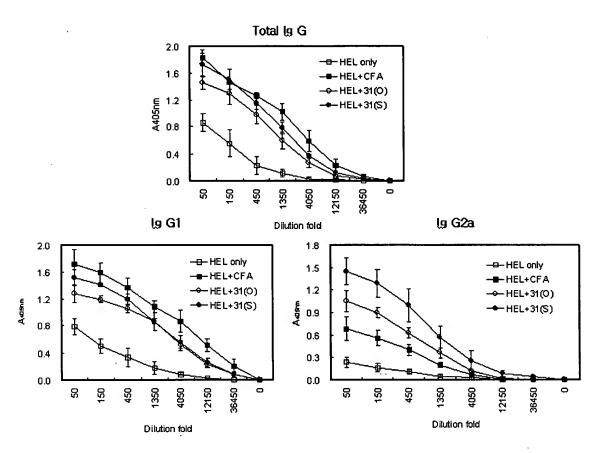


FIG. 10

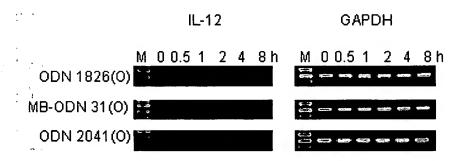


FIG. 11

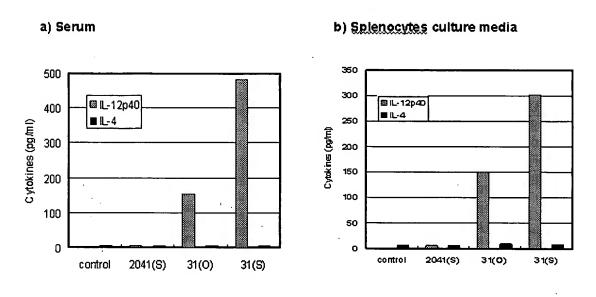


FIG. 12

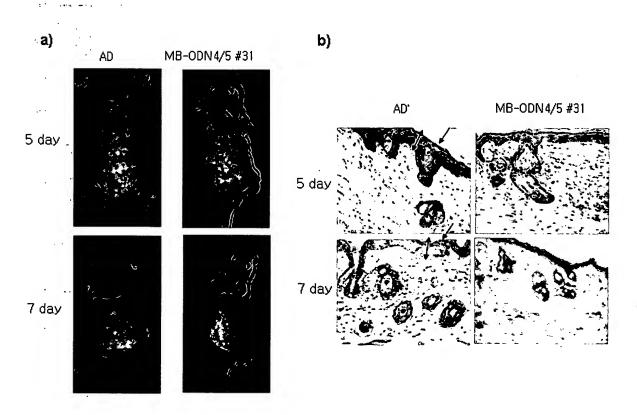


FIG. 13

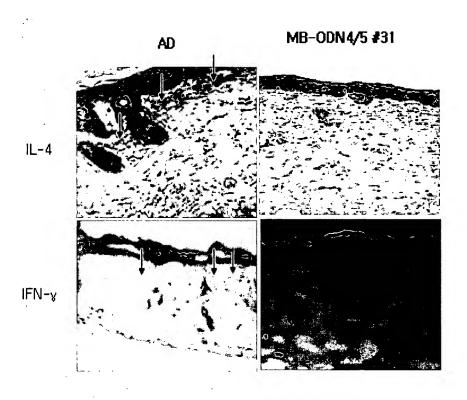


FIG. 14

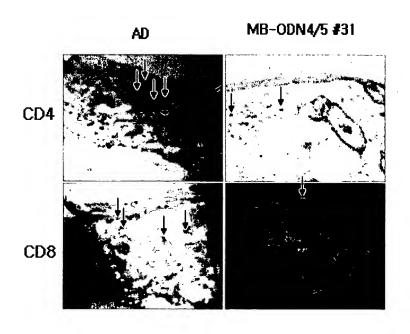


FIG. 15

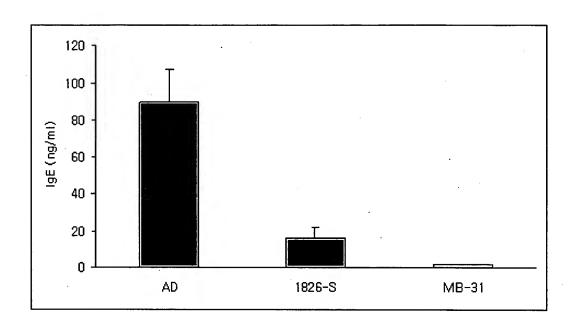


FIG. 16

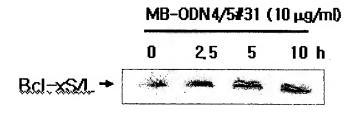


FIG. 17

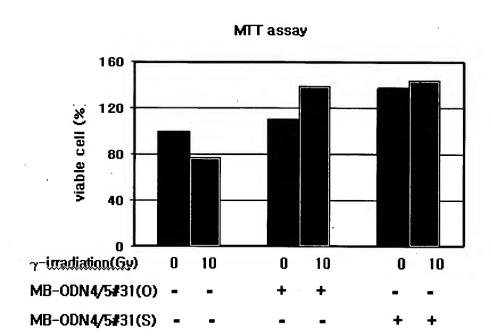


FIG. 18

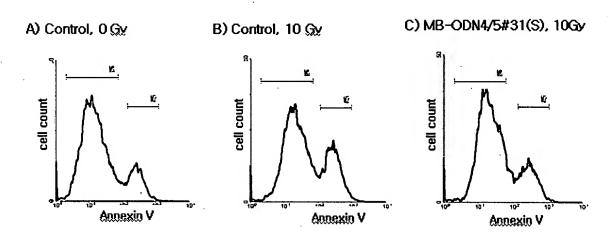


Fig.	γ -irradiation	MB-ODN 4/5 #31(S)	Marker	%Total
А	0 G ñ	(-)	M1 M2	73,54 16,709
В	10 Gy	(-)	M1 M2	58.82 27.24
С	10 წყ	(+)	M1 M2	65, 25 18, 71

FIG. 19

